VARIABLE BIT RATE ENCODING USING COMPLEXITY RATIO

Dengzhi Zhang

Sho Long Chen

Stanley H. Siu

ABSTRACT OF THE DISCLOSURE

A system and method is provided for variable bit rate encoding using a complexity ratio. Quantization parameter is calculated using a complexity ratio, which is equal to a local complexity divided by a global complexity. Complex pictures are allocated a larger bit budget relative to simple pictures. With the larger bit budget the quality of complex pictures can be maintained while reducing the overall size of the encoded video stream.